

ABSTRACT OF THE DISCLOSURE

A conductive organic compound device structure suitable for constituting an electronic device, such as an organic EL device, is formed by including a pair of oppositely spaced electrodes, and a carrier transporting layer disposed between the electrodes and in contact with one of the electrodes; wherein the carrier transporting layer comprises a conductive organic compound having a  $\pi$ -electron resonance structure in its molecule. In the device, the  $\pi$ -electron resonance structure plane of the conductive organic compound in the carrier transporting layer is aligned substantially parallel to surfaces of the electrodes. The conductive organic compound is preferably a conductive liquid crystal, such as a discotic liquid crystal or a smectic liquid crystal, and a layer thereof is included in the device, preferably by vacuum deposition.

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